



# Hydraulic Pressure Control Valve

**Karin Nielsen-Saines**



## **Hydraulic Pressure Control Valve:**

On Electrohydraulic Pressure Control for Power Steering Applications Alessandro Dell'Amico, 2016-02-04 This thesis deals with the Electrohydraulic Power Steering system for road vehicles using electronic pressure control valves. With an ever increasing demand for safer vehicles and fewer traffic accidents steering related active safety functions are becoming more common in modern vehicles. Future road vehicles will also evolve towards autonomous vehicles with several safety, environmental and financial benefits. A key component in realising such solutions is active steering. The power steering system was initially developed to ease the driver's workload by assisting in turning the wheels. This is traditionally done through a passive open centre hydraulic system and heavy trucks must still rely on fluid power due to the heavy work forces. Since the purpose of the original system is to control the assistive pressure one way would be to use proportional pressure control valves. Since these are electronically controlled active steering is possible and with closed centre energy efficiency can be significantly improved. In this work such a system is analysed in detail with the purpose of investigating the possible use of the system for Boost curve control and position control for autonomous driving. Commercially available valves are investigated since they provide an attractive solution. A model based approach is adopted where simulation of the system is an important tool. Another important tool is hardware in the loop simulation. A test rig of an electrohydraulic power steering system is developed. This work has shown how proportional pressure control valves can be used for Boost curve control and position control and what implications this has on a system level. As it turns out the valves add a great deal of time lag and with the high gain from the Boost curve this creates a control challenge. The problem can be handled by tuning the Boost gain, pressure response and damping and has been effectively shown through simulation and experiments. For position control there is greater freedom to design the controller to fit the system. The pressure response can be made fast enough for this case and the time lag is much less critical.

**Hydraulic Valves and Controls** John J. Pippenger, 1984

## **Practical Hydraulic Systems: Operation and Troubleshooting for Engineers and Technicians** Ravi

Doddannavar, Andries Barnard, Jayaraman Ganesh, 2005-02-07 Whatever your hydraulic applications **Practical Hydraulic Systems: Operation Troubleshooting For Engineers Technicians** will help you to increase your knowledge of the fundamentals, improve your maintenance programs and become an excellent troubleshooter of problems in this area. Cutaways of all major components are included in the book to visually demonstrate the components construction and operation. Developing an understanding of how it works leads to an understanding of how and why it fails. Multimedia views of the equipment are shown to give as realistic a view of hydraulic systems as possible. The book is highly practical, comprehensive and interactive. It discusses Hydraulic Systems construction, design, applications, operations, maintenance and management issues and provides you with the most up to date information and Best Practice in dealing with the subject. A focus on maintenance and troubleshooting makes this book essential reading for practising engineers. Written to cover the requirements of mechanical

industrial and civil engineering Cutaway diagrams demonstrate the construction and operation of key equipment ,

**Organizational maintenance manual** ,1987      **Motor's Truck & Tractor Repair Manual** ,1956      **Official Gazette of the United States Patent and Trademark Office** ,2002      Electronic Transmission Controls Ronald K Jurgen,2000-06-10 The evolution of the automotive transmission has changed rapidly in the last decade partly due to the advantages of highly sophisticated electronic controls This evolution has resulted in modern automatic transmissions that offer more control stability and convenience to the driver Electronic Transmission Controls contains 68 technical papers from SAE and other international organizations written since 1995 on this rapidly growing area of automotive electronics This book breaks down the topic into two sections The section on Stepped Transmissions covers recent developments in regular and 4 wheel drive transmissions from major auto manufacturers including DaimlerChrysler General Motors Toyota Honda and Ford Technology covered in this section includes smooth shift control automatic transmission efficiency mechatronic systems fuel saving technologies shift control using information from vehicle navigation systems and fuzzy logic control The section on Continuously Variable Transmissions presents papers that demonstrate that CVTs offer better efficiency than conventional transmissions Technologies covered in this section include powertrain control fuel consumption improvement development of a 2 way clutch system internal combustion engines with CVTs in passenger cars control and shift strategies and CVT application to hybrid powertrains The book concludes with a chapter on the future of electronic transmissions in automobiles      **Dynamic Analysis and Control System Design of Automatic Transmissions** Joel M Maguire,Huei Peng,Shushan Bai,2013-02-12 While the basic working principle and the mechanical construction of automatic transmissions has not changed significantly increased requirements for performance fuel economy and drivability as well as the increasing number of gears has made it more challenging to design the systems that control modern automatic transmissions New types of transmissions continuously variable transmissions CVT dual clutch transmissions DCT and hybrid powertrains have presented added challenges Gear shifting in today s automatic transmissions is a dynamic process that involves synchronized torque transfer from one clutch to another smooth engine speed change engine torque management and minimization of output torque disturbance Dynamic analysis helps to understand gear shifting mechanics and supports creation of the best design for gear shift control systems in passenger cars trucks buses and commercial vehicles Based on the authors graduate level teaching material this well illustrated book relays how the fundamental principles of hydraulics and control systems are applied to today s automatic transmissions It opens with coverage of basic automatic transmission mechanics and then details dynamics and controls associated with modern automatic transmissions Topics covered include gear shifting mechanics and controls dynamic models of planetary automatic transmissions design of hydraulic control systems learning algorithms for achieving consistent shift quality torque converter clutch controls centrifugal pendulum vibration absorbers friction launch controls shift scheduling and integrated powertrain controls continuously variable transmission ratio controls

dual clutch transmission controls and more The book includes many equations and clearly explained examples Sample Simulink models of various transmission mechanical hydraulic and control subsystems are also provided Chapter Two which covers planetary gear automatic transmissions includes homework questions making it ideal for classroom use In addition to students new engineers will find the book helpful because it provides the basics of transmission dynamics and control More experienced engineers will appreciate the theoretical discussions that will help elevate the reader's knowledge Although many automatic transmission related books have been published most focus on mechanical construction operation principles and control hardware None tie the dynamic analysis control system design and analytic investigation of the mechanical hydraulic and electronic controls as does this book

**Design and Validation of an Electro-hydraulic Pressure-control Valve and Closed-loop Controller** Jerry Boza, 2016 Electro hydraulic pressure control valves are used in many applications such as manufacturing equipment agricultural machinery and aircrafts to name a few They are often used to actuate hydraulic clutches such as those found in power shift transmissions A traditional pressure control valve with open loop control algorithm is typically used in clutch applications This scheme often results in inconsistent or undesirable system behavior due to the nature of open loop control as well as the nonlinear system dynamics and uncertainties In this research two new electro hydraulic pressure control valves were designed in order to decouple the valve and control port hydraulic dynamics This was achieved by removing the regulated pressure balancing force utilized in traditional pressure control valves Different closed loop controllers were designed and tested in parallel in order to achieve the desired steady state and dynamic regulated pressure response A nonlinear dynamic model was developed for each valve then used to compare the performance characteristics of the valves Linear analysis was performed and various control techniques were studied from classical PID control to modern optimal control The model was also used to predict performance of the closed loop controllers prior to experimental testing and to validate experimentally tuned controllers afterwards Prototype valves were fabricated in order to validate the model and to test the controller designs experimentally Different valve and controller combinations were compared to a traditional pressure control valve utilizing open loop control through typical industry performance tests This study found that a valve with a traditional pressure control pilot and a main stage spool with no pressure balancing force along with a gain scheduled PID controller outperformed the traditional valve in all areas tested This approach is also feasible within the existing infrastructure of most applications where the benchmark traditional valve is currently used

*Fundamentals of Medium/Heavy Duty Diesel Engines* Gus Wright, 2021-09-30 Preview a Sample Chapter Now Chapter 12 Diesel Fuel Properties and Characteristics View Now Thoroughly updated and expanded Fundamentals of Medium Heavy Diesel Engines Second Edition offers comprehensive coverage of basic concepts and fundamentals building up to advanced instruction on the latest technology coming to market for medium and heavy duty diesel engine systems Now organized by outcome based objectives to improve instructional clarity and adaptability in a more readable format all content

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**Operator's Aviation Unit Maintenance (AVUM) and Aviation Intermediate Maintenance (AVIM) Manual (Including Repair Parts and Special Tools List) for Truck, Helicopter Ground Handling, Part Number 204-050-200-5 (NSN 1730-00-980-9552) , Audel Pumps and Hydraulics** Rex Miller,Mark Richard Miller,Harry L. Stewart,2011-01-31 Pull up what you need to know Pumps and hydraulic equipment are now used in more facets of industry than ever before Whether you are a pump operator or you encounter pumps and hydraulic systems through your work in another skilled trade a basic knowledge of the practical features principles installation and maintenance of such systems is essential You ll find it all here fully updated with real world examples and 21st century

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## Adopting the Tune of Phrase: An Emotional Symphony within **Hydraulic Pressure Control Valve**

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